



## Complete Summary

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### TITLE

Blood transfusion: percentage of red blood cell (RBC) transfusion episodes when the HB reading is 100g/L or more, during the 6 month time period.

### SOURCE(S)

Australian Council on Healthcare Standards (ACHS). ACHS clinical indicator users' manual 2009. ULTIMO NSW: Australian Council on Healthcare Standards (ACHS); 2009 Jan. 853 p.

## Measure Domain

### PRIMARY MEASURE DOMAIN

Use of Services

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

### SECONDARY MEASURE DOMAIN

Does not apply to this measure

## Brief Abstract

### DESCRIPTION

This measure is used to assess the percentage of red blood cell (RBC) transfusion episodes when the hemoglobin (HB) reading is 100g/L or more, during the 6 month time period.

### RATIONALE

In certain clinical circumstances, blood component therapy (the administration of components derived from human blood) can save lives, restore normal life expectancy and improve quality of life. However, it is increasingly clear that such therapy has limitations, and that the decision to transfuse must be made with great care.

### PRIMARY CLINICAL COMPONENT

Red blood cell (RBC); transfusion; hemoglobin reading of 100g/L or more

#### **DENOMINATOR DESCRIPTION**

Total number of red blood cell (RBC) transfusion episodes, during the 6 month time period (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

#### **NUMERATOR DESCRIPTION**

Total number of red blood cell (RBC) transfusion episodes when the hemoglobin (HB) reading is 100g/L or more, during the 6 month time period

### **Evidence Supporting the Measure**

#### **EVIDENCE SUPPORTING THE VALUE OF MONITORING USE OF SERVICE**

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence
- A formal consensus procedure involving experts in relevant clinical, methodological, and organizational sciences

### **Evidence Supporting Need for the Measure**

#### **NEED FOR THE MEASURE**

Monitoring and planning

#### **EVIDENCE SUPPORTING NEED FOR THE MEASURE**

Australian Council on Healthcare Standards (ACHS). Australasian clinical indicator report 2001-2007. Determining the potential to improve quality of care: 9th edition. ULTIMO NSW: Australian Council on Healthcare Standards (ACHS); 2008. 611 p.

### **State of Use of the Measure**

#### **STATE OF USE**

Current routine use

#### **CURRENT USE**

Monitoring and planning

### **Application of Measure in its Current Use**

#### **CARE SETTING**

Hospitals

**PROFESSIONALS RESPONSIBLE FOR HEALTH CARE**

Physicians

**LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED**

Single Health Care Delivery Organizations

**TARGET POPULATION AGE**

Unspecified

**TARGET POPULATION GENDER**

Either male or female

**STRATIFICATION BY VULNERABLE POPULATIONS**

Unspecified

**Characteristics of the Primary Clinical Component**

**INCIDENCE/PREVALENCE**

Unspecified

**ASSOCIATION WITH VULNERABLE POPULATIONS**

Unspecified

**BURDEN OF ILLNESS**

Unspecified

**UTILIZATION**

Unspecified

**COSTS**

Unspecified

**Institute of Medicine National Healthcare Quality Report Categories**

**IOM CARE NEED**

Not within an IOM Care Need

## **IOM DOMAIN**

Not within an IOM Domain

## **Data Collection for the Measure**

### **CASE FINDING**

Users of care only

### **DESCRIPTION OF CASE FINDING**

Red blood cell (RBC) transfusion episodes, during the 6 month time period

### **DENOMINATOR SAMPLING FRAME**

Patients associated with provider

### **DENOMINATOR INCLUSIONS/EXCLUSIONS**

#### **Inclusions**

Total number of red blood cell (RBC) transfusion episodes\*, during the 6 month time period

\*A **transfusion episode** is defined as the interval in patient care from the time of the prescription and ordering of a defined number of units of whole blood or blood components for a patient and the time of completion of administration of these blood products to that patient. Transfusion episodes are typically characterised in terms of only one blood or blood component type. For an unstable patient the transfusion episode may be from commencement of transfusion until the patient becomes stable and/or blood component therapy is no longer needed in the short term.

**Note:** The types of transfusions in this indicator are limited to those with a more significant risk of reaction. Refer to the original measure documentation for International Classification of Diseases, Tenth Revision, Australian Modification (ICD-10-AM) codes to define those transfusions included in the denominator.

#### **Exclusions**

Unspecified

### **RELATIONSHIP OF DENOMINATOR TO NUMERATOR**

All cases in the denominator are equally eligible to appear in the numerator

### **DENOMINATOR (INDEX) EVENT**

Institutionalization

### **DENOMINATOR TIME WINDOW**

Time window brackets index event

## **NUMERATOR INCLUSIONS/EXCLUSIONS**

### **Inclusions**

Total number of red blood cell (RBC) transfusion episodes when the hemoglobin (HB) reading is 100g/L or more, during the 6 month time period

### **Exclusions**

Unspecified

## **MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS**

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

## **NUMERATOR TIME WINDOW**

Episode of care

## **DATA SOURCE**

Administrative data  
Medical record

## **LEVEL OF DETERMINATION OF QUALITY**

Does not apply to this measure

## **PRE-EXISTING INSTRUMENT USED**

Unspecified

## **Computation of the Measure**

## **SCORING**

Rate

## **INTERPRETATION OF SCORE**

Undetermined

## **ALLOWANCE FOR PATIENT FACTORS**

Unspecified

## STANDARD OF COMPARISON

External comparison at a point in time  
External comparison of time trends  
Internal time comparison

## Evaluation of Measure Properties

## EXTENT OF MEASURE TESTING

Unspecified

## Identifying Information

## ORIGINAL TITLE

Indicator area 7: blood transfusion CI 7.3.

## MEASURE COLLECTION

[Australian Council on Healthcare Standards \(ACHS\) Equip Clinical Indicators](#)

## MEASURE SET NAME

[Hospital-Wide Clinical Indicators](#)

## DEVELOPER

Australian Council on Healthcare Standards

## FUNDING SOURCE(S)

Funding is direct Australian Council on Healthcare Standards (ACHS) funding sourced through our membership. ACHS does not receive external funding from the government or other sources.

## COMPOSITION OF THE GROUP THAT DEVELOPED THE MEASURE

Our terms of reference dictate the composition of the working parties that develop our indicators and include the following:

- Two Clinicians -- nominated by the relevant specialty college/association/society, one nominated to be the chair of the working party
- Private Hospital Representative -- nominated by the Australian Private Hospital Association
- Consumer Representative -- nominated by the Consumer Health Forum of Australia

- Coding Representative -- nominated by the National Centre for Clinical classification on Health
- Quality Health New Zealand, nominated by QHNZ (if applicable)
- Epidemiological/Clinical Research Representative, Director of Health Services Research Group, University of Newcastle
- Australian Council on Healthcare Standards (ACHS) Representatives -- Clinical Director, Coordinator, Administrative Assistant
- Other Expert Stakeholders, as required

## **FINANCIAL DISCLOSURES/OTHER POTENTIAL CONFLICTS OF INTEREST**

None

## **ADAPTATION**

Measure was not adapted from another source.

## **RELEASE DATE**

1991 Jan

## **REVISION DATE**

2009 Jan

## **MEASURE STATUS**

This is the current release of the measure.

This measure updates a previous version: Australian Council on Healthcare Standards (ACHS). ACHS clinical indicator users' manual 2008. ULTIMO NSW: Australian Council on Healthcare Standards (ACHS); 2007 Dec. 776 p.

## **SOURCE(S)**

Australian Council on Healthcare Standards (ACHS). ACHS clinical indicator users' manual 2009. ULTIMO NSW: Australian Council on Healthcare Standards (ACHS); 2009 Jan. 853 p.

## **MEASURE AVAILABILITY**

The individual measure, "Indicator Area 7: Blood Transfusion CI 7.3," is published in "ACHS Clinical Indicator Users' Manual 2009."

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## **COMPANION DOCUMENTS**

The following is available:

- Australian Council on Healthcare Standards (ACHS). Australasian clinical indicator report 2001-2007. Determining the potential to improve quality of care: 9th edition. ULTIMO NSW: Australian Council on Healthcare Standards (ACHS); 2008. 611 p. This document is available in Portable Document Format (PDF) from the [Australian Council on Healthcare Standards \(ACHS\) Web site](#).

## **NQMC STATUS**

This NQMC summary was completed by ECRI Institute on July 25, 2008. This NQMC summary was updated by ECRI Institute on May 8, 2009.

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